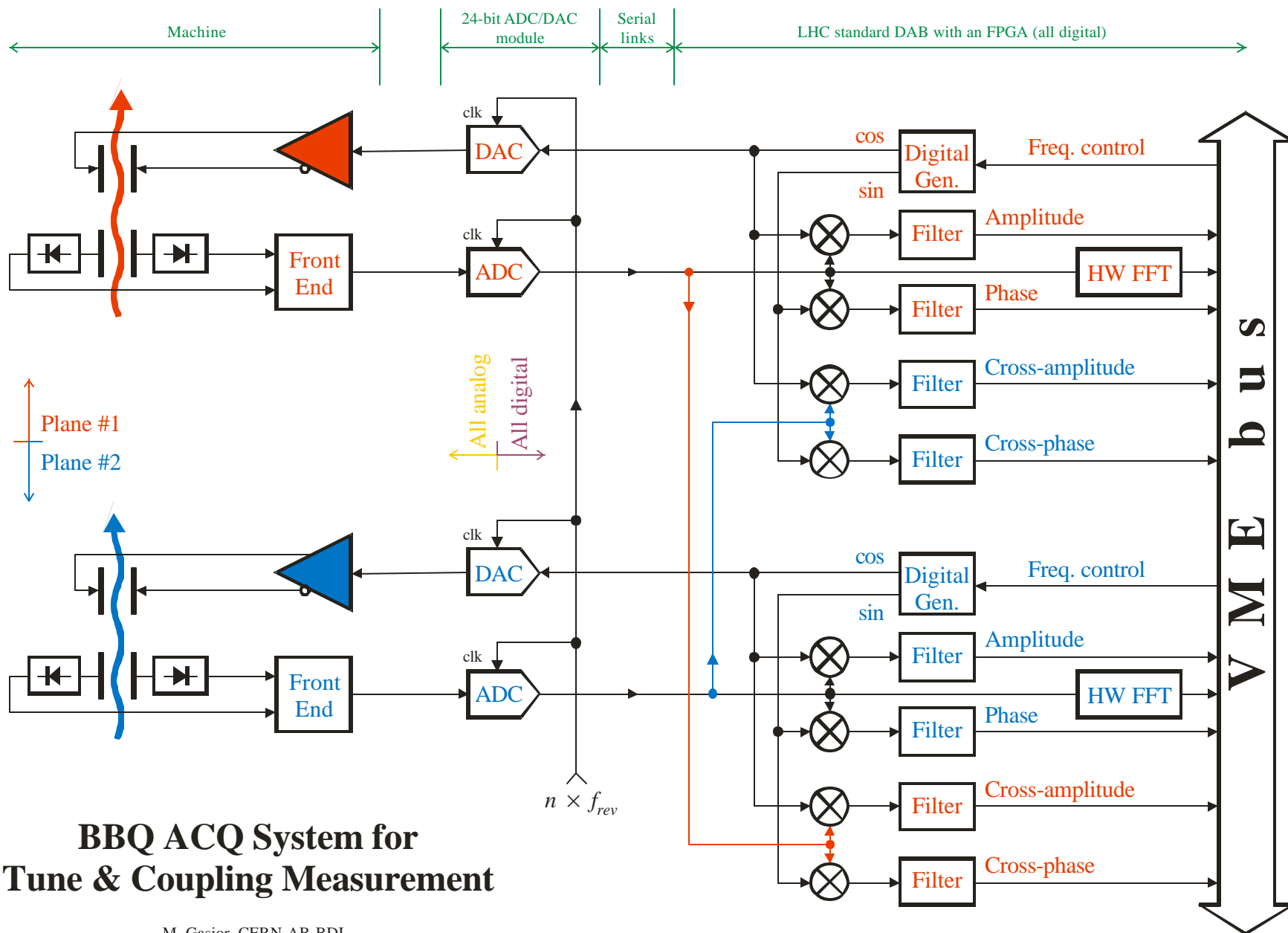


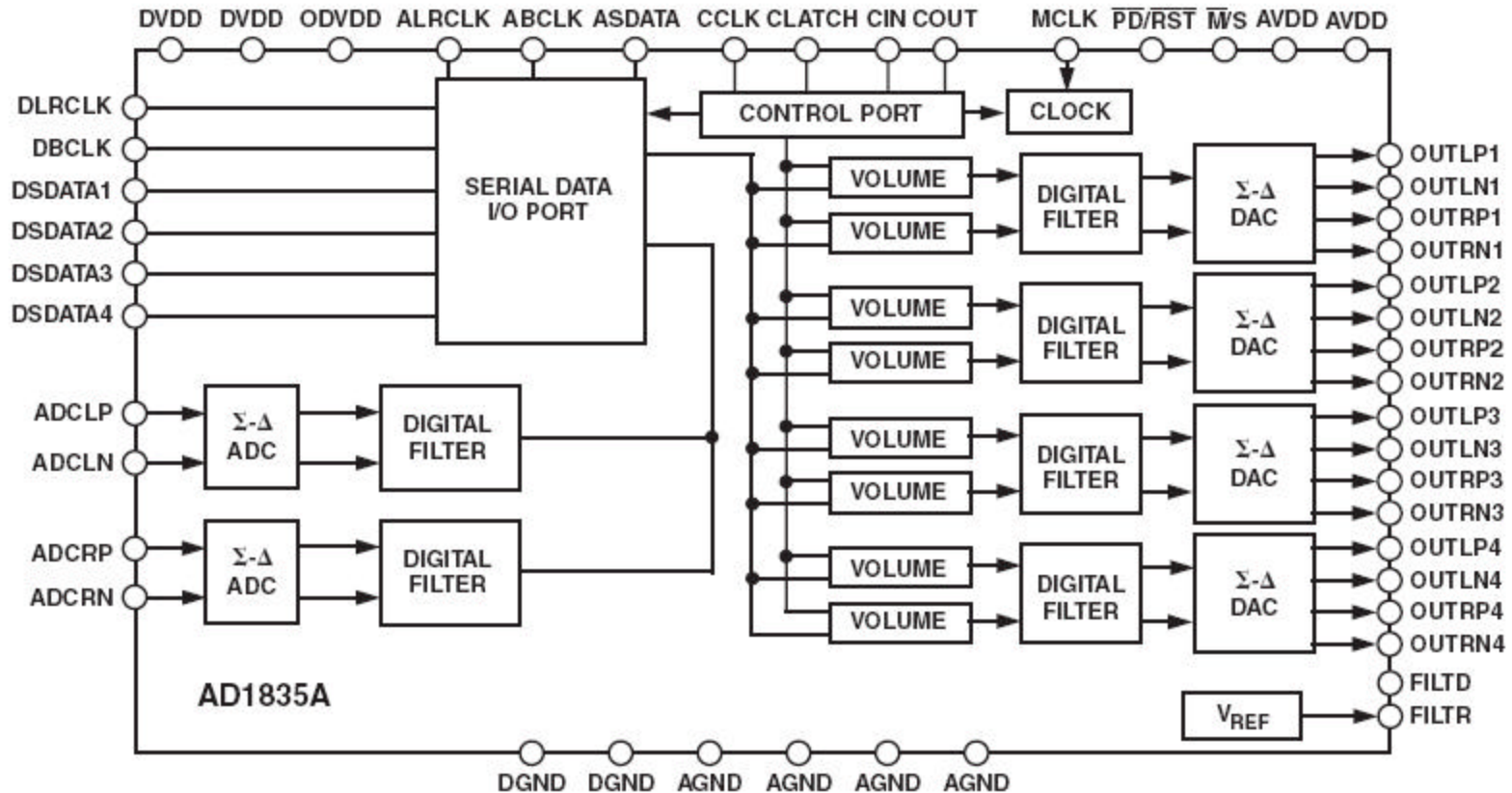
Acquisition System of the Base-Band Q (BBQ) Measurement

Marek GASIOR, CERN-AB-BDI

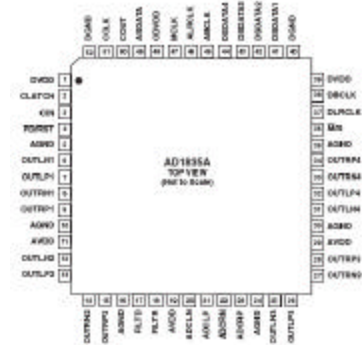


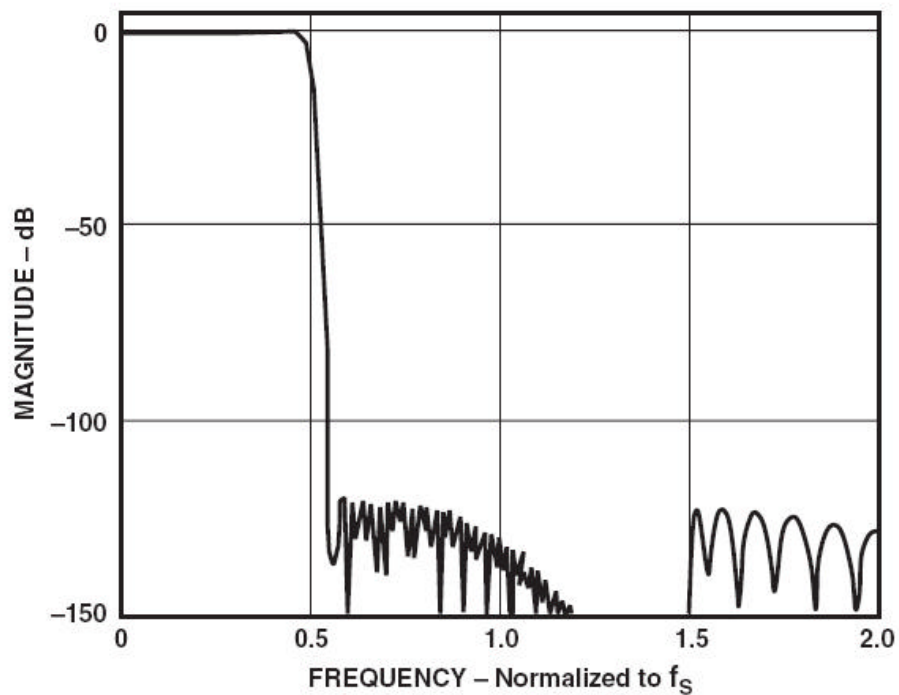
BBQ ACQ System for Tune & Coupling Measurement

M. Gasior, CERN-AB-BDI



- In one chip 2 ADCs / 8 DACs, 24 bit, 96 kS/s
- SNR 105 dB (i.e. some 18 true bits)
- It can work with any sampling frequency (< 96 kS/s)
- Everything controlled through a single bus (a few serial links)
- Some digital filters already inside





ADC decimation filter group delay $460 \mu s$
with sampling at 96 kHz

DAC interpolation filter group delay $340 \mu s$

